

MT SERIES -(MT31/32/42/43/52/53/54/73/75/104/105)**1 . FEATURES(特性):**

- ◆ Various high power inductors are superior to be high saturation for surface mounting -具有高功率,高饱和度,低阻抗,小型化的特点
- ◆ Put the electrode with ferrite core directly, a small surface area allow a high mounting density -直接电极设计,降低零件高度

2 . APPLICATIONS(应用):

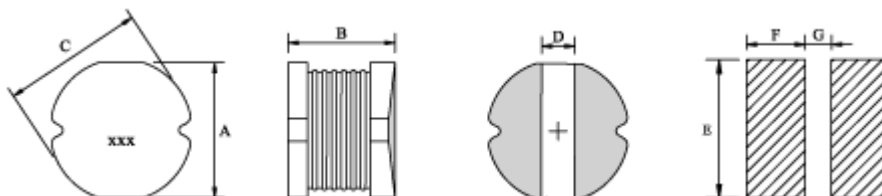
- ◆ MP3, Mpeg4, VTR, LCD TV, communication equipments, DC/DC converters, etc.. -MP3, Mpeg4, 录影机, 液晶电视, 通信设备, 直流转换器

3 . SPECIFICATIONS(说明):

- ◆ Operating Temperature: -30 to +80 -工作温度: -30 - +80
- ◆ Operating Frequency: Up to 1MHz -工作频率: 达到 1MHz
- ◆ Inductance Drop=10% typ. at IDC -电感下跌 10%加电流时
- ◆ Electrical Specifications at 20 -电气特性是在 20 条件下

**5 . ORDERING CODE(编号识别):**

<u>MT</u>	<u>54</u>	-	<u>330</u>	<u>K</u>
(1)	(2)		(3)	(4)
(1)	Part type -产品类型			
(2)	Dimensions -尺寸			
(3)	Inductance -电感量			
(4)	Inductance tolerance -电感量公差			
J±5%, K±10%, L±15%, M±20%				

4 . SHAPE AND DIMENSIONS(外形尺寸):

Unit: mm

TYPE 类型	L Range (μH) 电感范围	A ± 0.3	B ± 0.3	C ± 0.3	D	E	F	G
MT31	3.3 --- 390	3.0	1.6	3.5	1.2	3.5	1.60	0.8
MT32	1.0 --- 390	3.0	2.1	3.5	1.2	3.5	1.60	0.8
MT42	2.2 --- 470	4.0	2.0	4.5	1.5	4.5	2.10	0.8
MT43	1.0 --- 1000	4.0	3.2	4.5	1.5	4.5	2.10	0.8
MT52	1.2 --- 1000	5.2	2.5	5.8	2.0	5.5	2.25	1.5
MT53	1.0 --- 1000	5.2	3.0	5.8	2.0	5.5	2.25	1.5
MT54	2.2 --- 1000	5.2	4.5	5.8	2.0	5.5	2.25	1.5
MT73	10 --- 1000	7.0	3.5	7.8	2.5	7.5	3.05	1.9
MT75	1.2 --- 1000	7.0	5.0	7.8	2.5	7.5	3.05	1.9
MT104	10 --- 1000	9.0	4.0	10.0	2.9	9.5	3.65	2.5
MT105	1.8 --- 1000	9.0	5.4	10.0	2.9	9.5	3.65	2.5

Design a Customer's Requested Specifications (可根据客户具体要求来设计)

SMD POWER INDUCTORS

6 . ELECTRICAL CHARACTERISTICS(电气特性):

MT42 Series				
Part Number	Inductance (μ H)	Test Freq. (MHz)	DCR (Ω) (max)	IDC (A) (max)
型 号	电感值 (L)	测试频率	直流电阻	额定电流
MT42 - 2R2M	2.2	7.96	0.10	1.32
MT42 - 2R7M	2.7	7.96	0.11	1.25
MT42 - 3R3M	3.3	7.96	0.13	1.20
MT42 - 3R9M	3.9	7.96	0.14	1.15
MT42 - 4R7M	4.7	7.96	0.16	1.10
MT42 - 5R6M	5.6	7.96	0.17	1.05
MT42 - 6R8M	6.8	7.96	0.19	0.95
MT42 - 7R4M	7.4	7.96	0.20	0.90
MT42 - 8R2M	8.2	7.96	0.22	0.80
MT42 - 100K	10	0.1	0.23	0.75
MT42 - 120K	12	0.1	0.26	0.70
MT42 - 150K	15	0.1	0.30	0.65
MT42 - 180K	18	0.1	0.38	0.60
MT42 - 220K	22	0.1	0.45	0.55
MT42 - 270K	27	0.1	0.62	0.50
MT42 - 330K	33	0.1	0.75	0.44
MT42 - 390K	39	0.1	0.82	0.41
MT42 - 470K	47	0.1	0.95	0.38
MT42 - 560K	56	0.1	1.20	0.35
MT42 - 680K	68	0.1	1.40	0.31
MT42 - 820K	82	0.1	1.75	0.27
MT42 - 101K	100	0.1	2.10	0.25
MT42 - 121K	120	0.1	2.70	0.22
MT42 - 151K	150	0.1	3.10	0.19
MT42 - 181K	180	0.1	3.70	0.18
MT42 - 221K	220	0.1	4.40	0.17
MT42 - 271K	270	0.1	5.20	0.15
MT42 - 331K	330	0.1	6.50	0.14
MT42 - 391K	390	0.1	7.30	0.13
MT42 - 471K	470	0.1	7.80	0.12